

CLAIMS

What is claimed is:

1 1. A pressurized wheel hub comprising: a wheel hub having bearings that are rotatably
2 securable to an axle; seals between said wheel hub and said axle, said seals forming a closed
3 air space around said bearings; means for fluidly coupling said closed air space to a source
4 of pressurized air, said source of pressurized air maintaining between 1psi and 30psi in said
5 closed air space.

1 2. The pressurized wheel hub according to claim 1 including a means for measuring
2 the amount of pressurized air placed within closed air space.

1 3. The pressurized wheel hub according to claim 2 wherein said means for measuring is
2 further defined as pressure gauge providing a visual indication of the pressurized air
3 whereby a breached seal condition within the wheel hub can be detected.

1 4 The pressurized wheel hub of claim 3, wherein said air pressure gauge includes a
2 dial face and a pressure indicating needle moving relative to said dial face in direct relation
3 to the air pressure within said closed air system.

1 5 The pressurized wheel hub of claim 3, wherein said air pressure gauge includes a
color coded dial face capable of indicating safe operation of the wheel hub.

1 6. The pressurized wheel hub of claim 1, wherein said means for fluidly coupling is
2 further defined as a pneumatic chamber annular coaxially disposed along an end of said axle
3 having an inlet located outside said seal and an outlet located within said closed air space.

1 7. The pressurized wheel hub of claim 5, wherein said air pressure gauge is fluidly
2 coupled to said pressurized wheel hub aperture.

1 8. The pressurized wheel hub of claim 1, wherein said pneumatic chamber is annular
2 and coaxially disposed around one end of said axle, and said pressurized air is introduced
3 into said closed air space air pressure gauge is fluidly coupled to said pressurized wheel hub
4 aperture.

1 9. The pressurized wheel hub of claim 8, wherein said pneumatic chamber is coupled
2 to a DC air compressor located on the boat trailer.

1 10. The pressurized wheel hub of claim 8, wherein said pneumatic chamber is coupled
2 to a DC air compressor located on a towing vehicle.

1 11. The pressurized wheel hub of claim 1 including a polished ring securable to said
2 axle and operatively associated with said oil seal, wherein said polished ring provides a
3 machined surface to permit enhanced sealing with said oil seal.